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**From:** Beck, Nancy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=168ECB5184AC44DE95A913297F353745-BECK, NANCY]  
**Sent:** 12/7/2017 5:05:39 PM  
**To:** Jackson, Ryan [jackson.ryan@epa.gov]  
**CC:** Forsgren, Lee [Forsgren.Lee@epa.gov]; Liz Bowman (Bowman.Liz@epa.gov) [Bowman.Liz@epa.gov]  
**Subject:** PFOA/PFOS

Ryan,

As requested see below. Lee- please correct if needed. I'm not sure how many drinking water systems exceed the health advisory level, but perhaps Lee has this at his fingertips.

Happy to try to answer other questions.

- EPA has a health advisory (70 parts per trillion ppt) that is directed to drinking water system operators, and state, tribal and local officials who have the primary responsibility for overseeing these system.
- Between 2000 and 2002, PFOS was voluntarily **phased out of production in the U.S.** by its primary manufacturer.
- In 2006, eight major companies voluntarily agreed to phase out **their global production** of PFOA and PFOA-related chemicals, although there are a limited number of ongoing uses.
- Scientists have found PFOA and PFOS in the blood of nearly all the people they tested, but these studies show that **the levels of PFOA and PFOS in blood have been decreasing**. This shows the phaseout is working. A recent journal publication also attributed a decrease in the number babies with low birth weight to the phase out of PFOA and PFOS and provided it as an example of an EPA phase out that is working.

**Health Effects:**

- Studies indicate that **exposure to PFOA and PFOS over certain levels** may result in adverse health effects, including developmental effects to fetuses during pregnancy or to breastfed infants (e.g., low birth weight, accelerated puberty, skeletal variations), cancer (e.g., testicular, kidney), liver effects (e.g., tissue damage), immune effects (e.g., antibody production and immunity), thyroid effects and other effects (e.g., cholesterol changes).

**OW directions for reducing levels in drinking water systems:**

- Change blending rates
- Treat source water with activated carbon or reverse osmosis
- Provide bottled water
- Note: Home filters are typically effective at removing PFOS/PFOA at the tap.

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